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EE (utility model), EE, EG, ES, FI (utility model), FI, GB,
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SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA,
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Declarations under Rule 4.17:

- as to applicant's entitlement to apply for and be granted a
patent (Rule 4.17(ii)) for all designations
- as to the applicant's entitlement to claim the priority of the
earlier application (Rule 4.17(iii)) for all designations
- as to the applicant's entitlement to claim the priority of the
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- with international search report

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For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: A VEHICLE BATTERY PACK INSULATOR

(57) Abstract: A vehicle battery pack insulator and insulated battery pack for a vehicle are disclosed. Methods of insulating a battery pack type power supply in a vehicle are also disclosed. Vehicles containing an insulated battery pack type power supply are further disclosed.

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/41696

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01B3/48 H01M2/02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H01B H01M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 380 580 A (SANOCKI STEPHEN M ET AL) 10 January 1995 (1995-01-10) cited in the application column 8, line 67 - column 9, line 4; claims 1-27	1-37
A	FR 2 193 262 A (ELTRA CORP) 15 February 1974 (1974-02-15) page 2, line 1 - page 5, line 8; claims 1-7	1-37
A	US 3 968 075 A (DOUCETTE EDWARD I ET AL) 6 July 1976 (1976-07-06) claims 1-9	1-37
A	US 4 395 306 A (KILLAT GEORGE R) 26 July 1983 (1983-07-26) column 1, line 17 - line 21; example 1	1-37

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *G* document member of the same patent family

Date of the actual completion of the international search

12 July 2004

Date of mailing of the international search report

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INTERNATIONAL SEARCH REPORT

International application No.
PCT/US 03/41696

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-12, 16-18, 21-30, 36-37

Insulating element for a battery pack comprising a) sheet members of sheet or mats of inorganic fibres and b) one sheet comprises an attaching member selected from adhesives, fasteners or combinations. Use: battery packs for vehicles

2. claims: 13-15, 19-20, 31-35

Insulating element for a battery pack (being molded) comprising a) one or more molded sheets containing mats of inorganic fibres and the use in battery packs for vehicles.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US 03/41696

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